

Data File : VU033023.D
Acq On : 24 Jun 2019 22:09
Operator : JC/SP
Sample : K3463-07MS
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 34 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
ETF07MS

Quant Time: Jun 25 06:59:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM061719WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Jun 25 06:54:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	194723	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	193588	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	92367	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	60787	45.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.36%
7) Chloroethane-d5	1.67	69	53120	50.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.10%
11) 1,1-Dichloroethene-d2	2.27	63	129547	48.32	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.64%
21) 2-Butanone-d5	4.17	46	124239	112.17	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	112.17%
24) Chloroform-d	4.64	84	130284	50.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.72%
26) 1,2-Dichloroethane-d4	5.30	65	91958	53.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.72%
32) Benzene-d6	5.33	84	252483	50.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.06%
36) 1,2-Dichloropropane-d6	6.32	67	82642	51.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.82%
41) Toluene-d8	7.56	98	231821	49.05	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.10%
43) trans-1,3-Dichloropropene-	7.84	79	40142	48.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.00%
47) 2-Hexanone-d5	8.31	63	74400	99.12	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.12%
57) 1,1,2,2-Tetrachloroethane-	10.42	84	120613	48.53	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.06%
64) 1,2-Dichlorobenzene-d4	11.85	152	89286	49.95	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.90%

Target Compounds

					Qvalue
5) Vinyl chloride	1.40	62	1536	0.869 ug/L #	32
8) Chloroethane	1.40	64	1426	1.401 ug/L #	1
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	815	0.626 ug/L #	17
12) 1,1-Dichloroethene	2.28	96	56692	46.233 ug/L	96
13) Acetone	2.32	43	1035	0.677 ug/L	65
17) trans-1,2-Dichloroethene	2.98	96	1056	0.794 ug/L #	73
20) cis-1,2-Dichloroethene	4.22	96	91265	63.002 ug/L	92
27) 1,2-Dichloroethane	5.38	62	2774	1.292 ug/L #	77
33) Benzene	5.38	78	274211	49.170 ug/L	100
34) Trichloroethene	6.18	95	82473	55.350 ug/L	97
39) cis-1,3-Dichloropropene	7.22	75	2894	1.214 ug/L #	57
40) 4-Methyl-2-pentanone	7.56	43	1169	0.479 ug/L #	1
42) Toluene	7.63	91	292577	48.489 ug/L	99
44) trans-1,3-Dichloropropene	7.85	75	1863	0.832 ug/L #	58
46) Tetrachloroethene	8.22	164	13138	10.760 ug/L	96
48) 2-Hexanone	8.36	43	2826	1.311 ug/L #	79
49) Dibromochloromethane	8.22	129	12357	7.199 ug/L #	12

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062419\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Tue Jun 25 06:54:49 2019
Response via : Initial Calibration

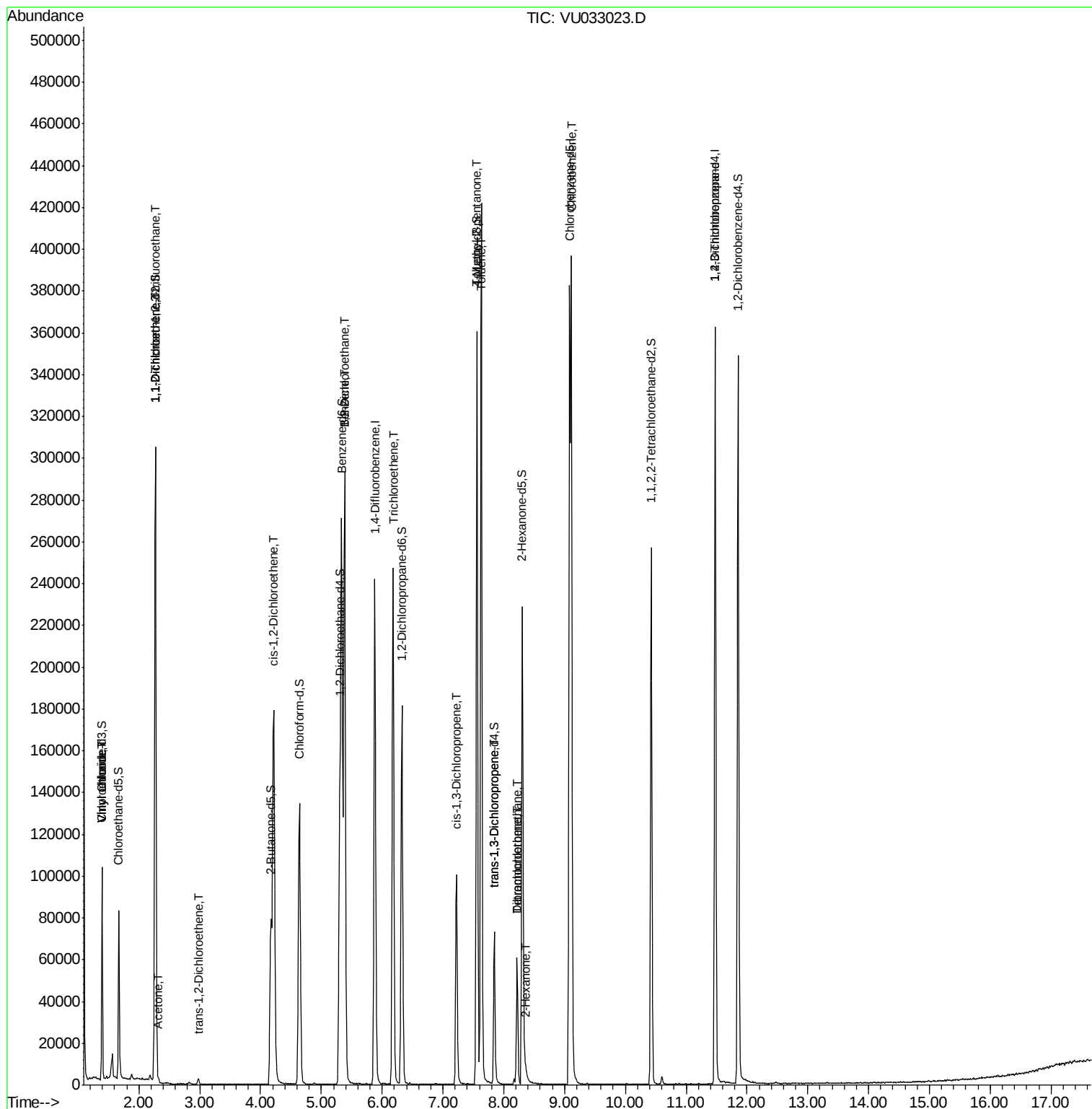
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.11	112	192595	48.506	ug/L	99
59) 1,2,3-Trichloropropane	11.48	75	11340	5.555	ug/L #	87

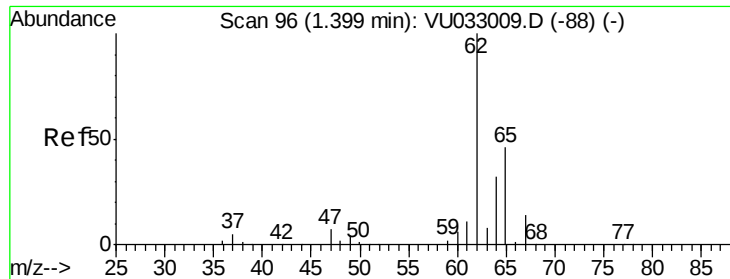
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.869 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU033023.D

Acq: 24 Jun 2019 22:09

Instrument :

MSVOA_U

ClientSampleId :

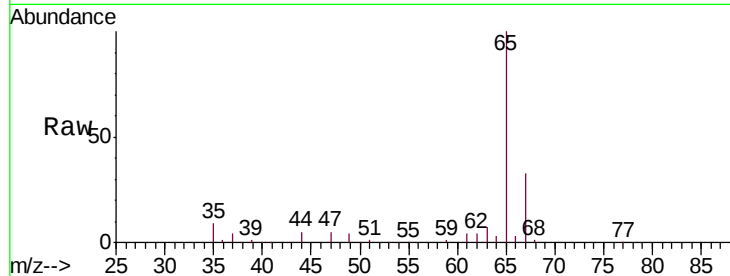
ETF07MS

Tgt Ion: 62 Resp: 1536

Ion Ratio Lower Upper

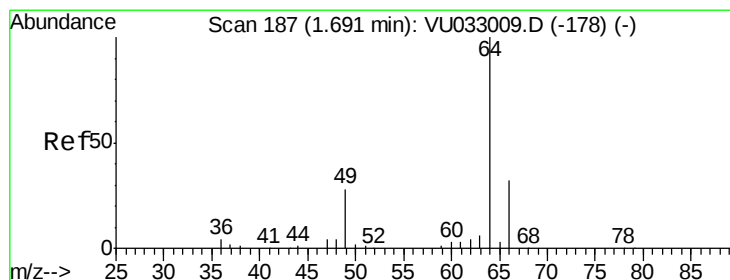
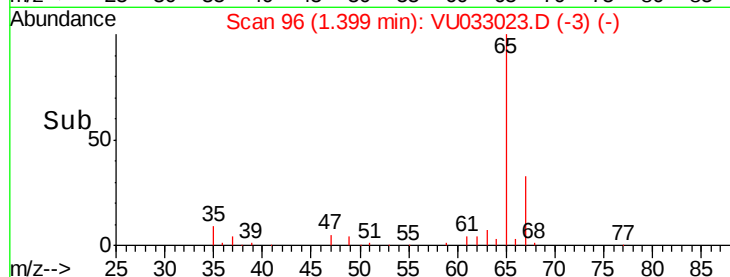
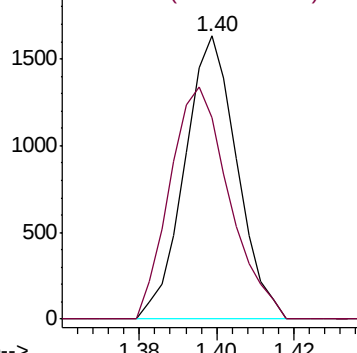
62 100

64 71.2 23.0 42.6#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#8

Chloroethane

Concen: 1.401 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.30 min

Lab File: VU033023.D

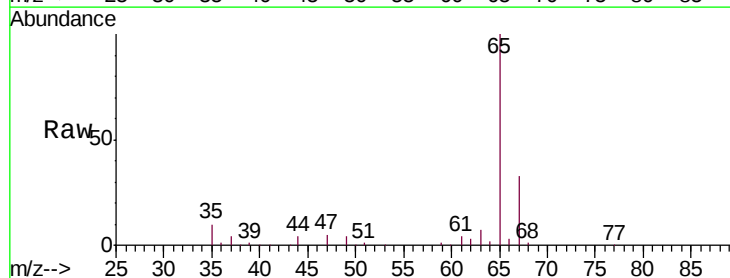
Acq: 24 Jun 2019 22:09

Tgt Ion: 64 Resp: 1426

Ion Ratio Lower Upper

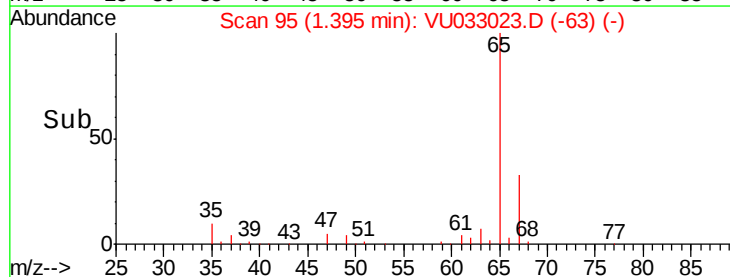
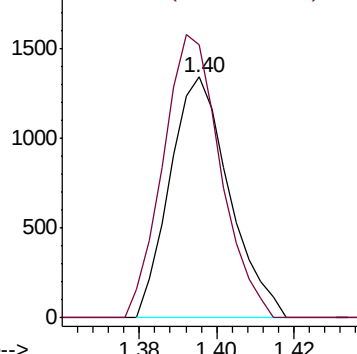
64 100

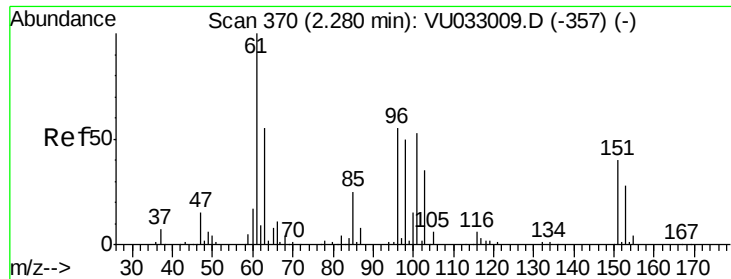
66 113.3 22.5 41.7#



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.626 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.01 min

Lab File: VU033023.D

Acq: 24 Jun 2019 22:09

Instrument :

MSVOA_U

ClientSampleId :

ETF07MS

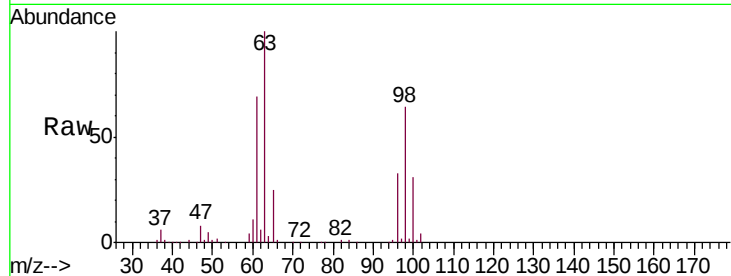
Tgt Ion: 101 Resp: 815

Ion Ratio Lower Upper

101 100

85 0.0 36.8 55.2#

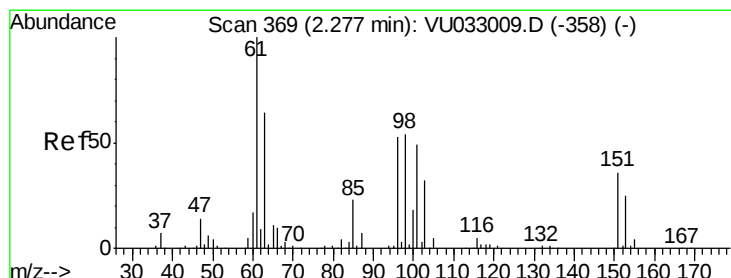
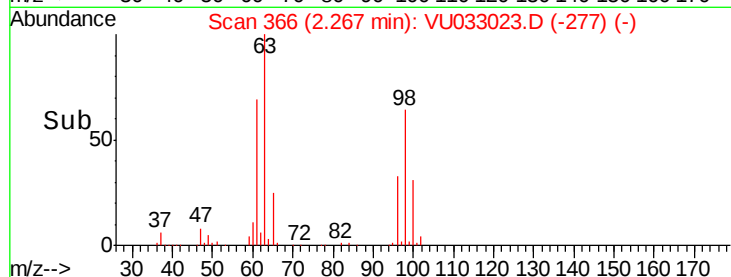
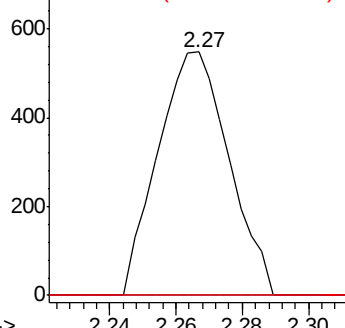
151 0.0 63.6 95.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 46.233 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU033023.D

Acq: 24 Jun 2019 22:09

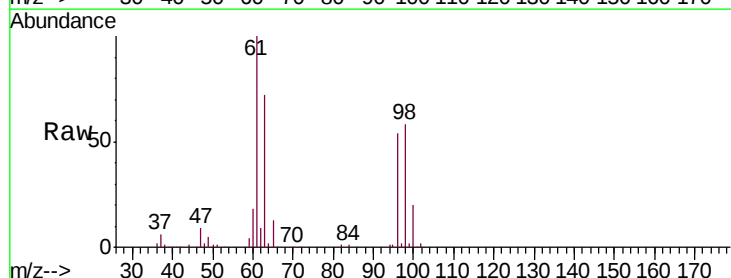
Tgt Ion: 96 Resp: 56692

Ion Ratio Lower Upper

96 100

61 186.7 131.0 243.4

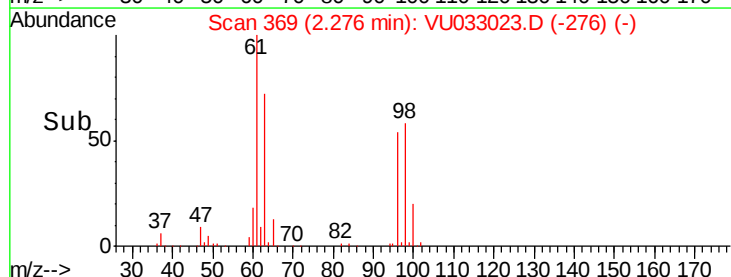
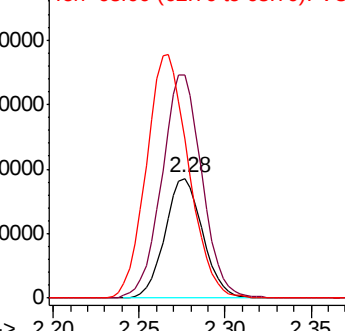
63 133.5 101.0 187.6

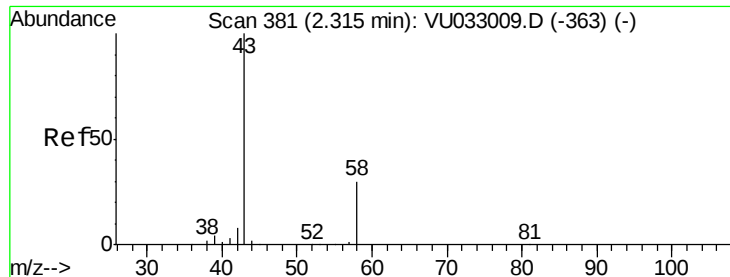


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 0.677 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU033023.D

Acq: 24 Jun 2019 22:09

Instrument :

MSVOA_U

ClientSampleId :

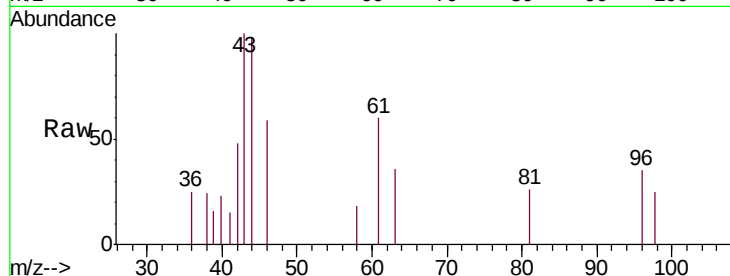
ETF07MS

Tgt Ion: 43 Resp: 1035

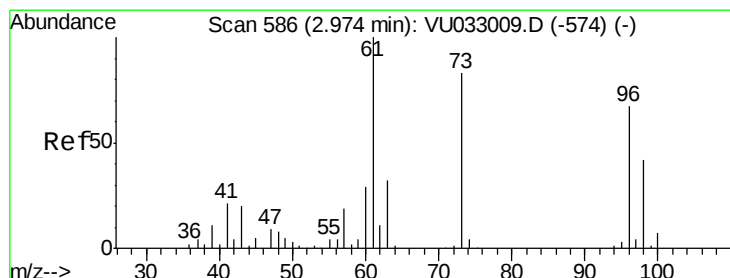
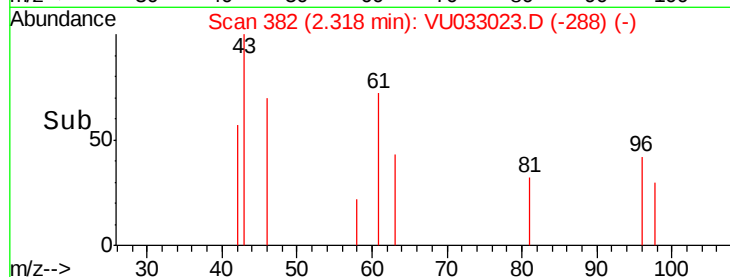
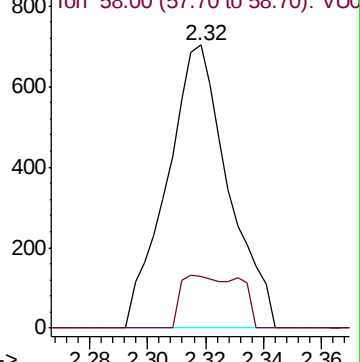
Ion Ratio Lower Upper

43 100

58 11.4 0.0 60.6



Abundance Ion 43.00 (42.70 to 43.70): VU033009.D (-363) (-)



#17

trans-1,2-Dichloroethene

Concen: 0.794 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033023.D

Acq: 24 Jun 2019 22:09

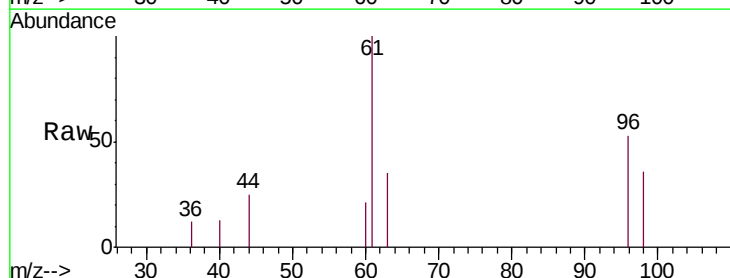
Tgt Ion: 96 Resp: 1056

Ion Ratio Lower Upper

96 100

61 188.1 100.9 187.5#

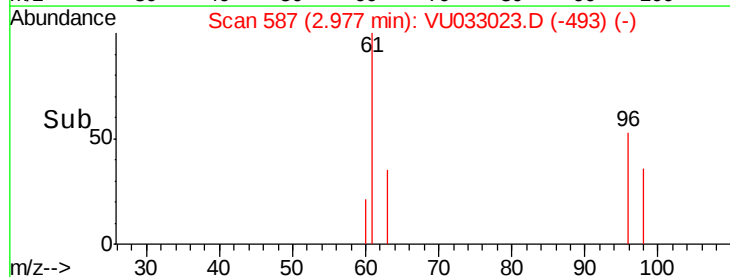
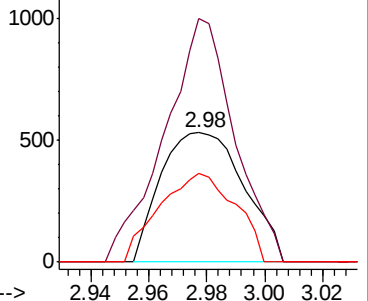
98 68.5 44.0 81.8

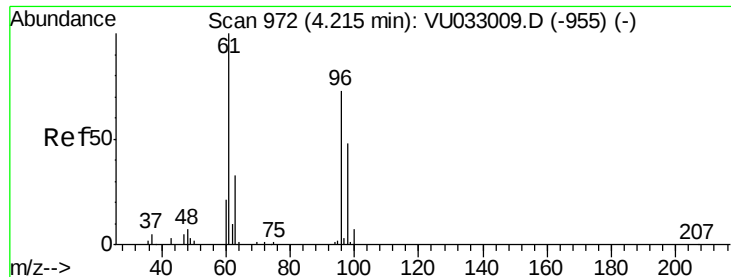


Abundance Ion 96.00 (95.70 to 96.70): VU033009.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU033009.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU033009.D (-574) (-)



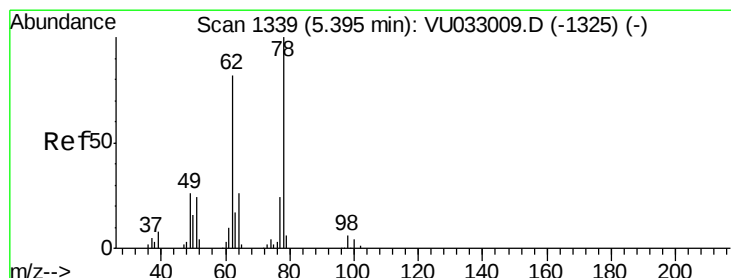
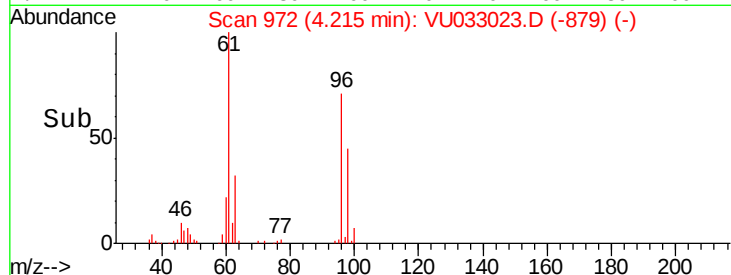
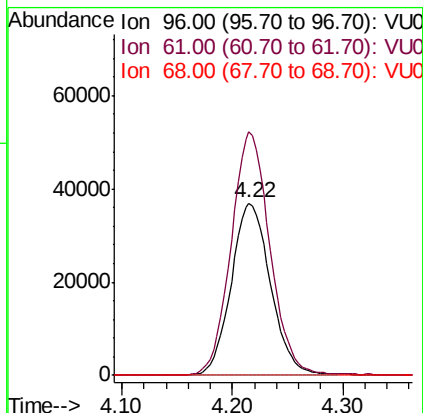
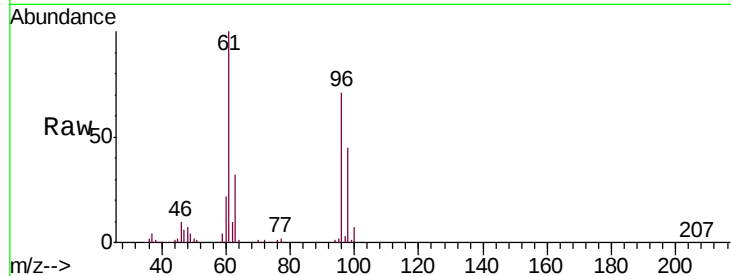


#20

cis-1,2-Dichloroethene
 Concen: 63.002 ug/L
 RT: 4.22 min Scan# 972
 Delta R.T. -0.00 min
 Lab File: VU033023.D
 Acq: 24 Jun 2019 22:09

Instrument :
 MSVOA_U
 ClientSampleId :
 ETF07MS

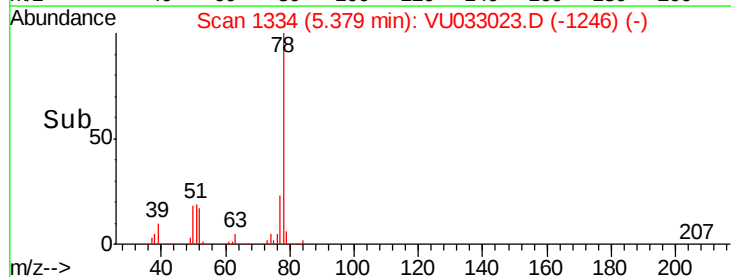
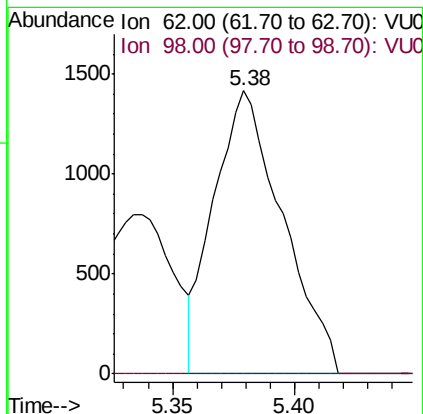
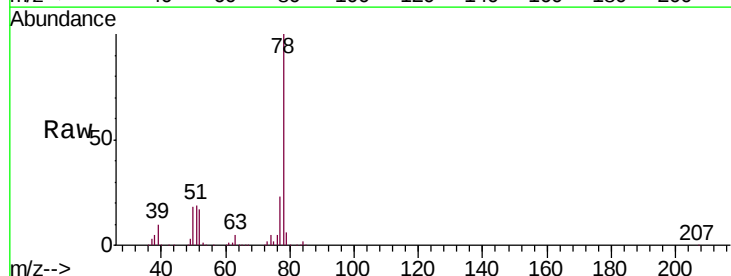
Tgt Ion: 96 Resp: 91265
 Ion Ratio Lower Upper
 96 100
 61 141.4 92.4 171.6
 68 0.0 0.0 0.0

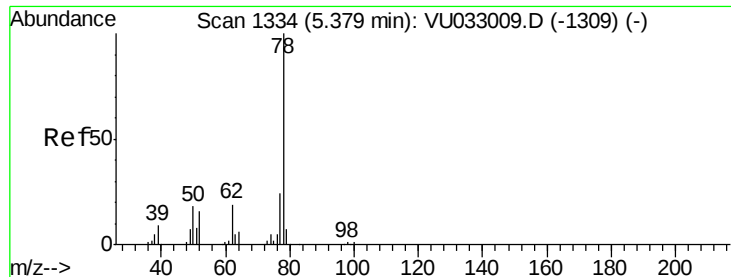


#27

1,2-Dichloroethane
 Concen: 1.292 ug/L
 RT: 5.38 min Scan# 1334
 Delta R.T. -0.02 min
 Lab File: VU033023.D
 Acq: 24 Jun 2019 22:09

Tgt Ion: 62 Resp: 2774
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.6 10.0#





#33

Benzene

Concen: 49.170 ug/L

RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU033023.D

Acq: 24 Jun 2019 22:09

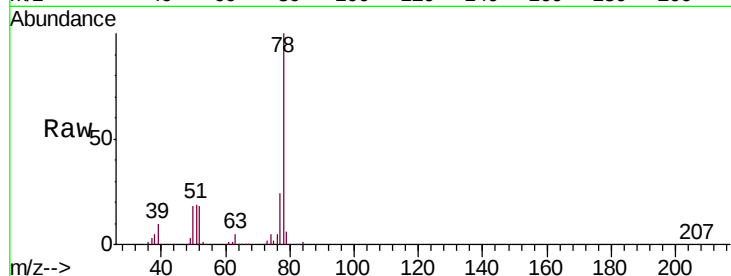
Instrument :

MSVOA_U

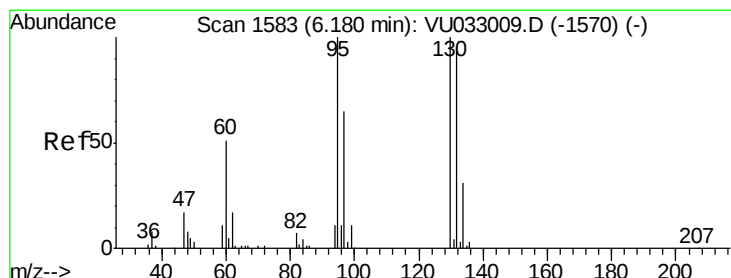
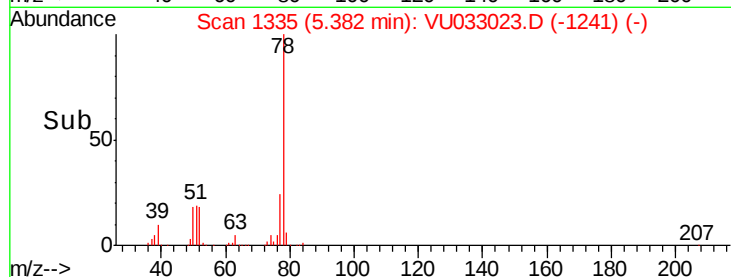
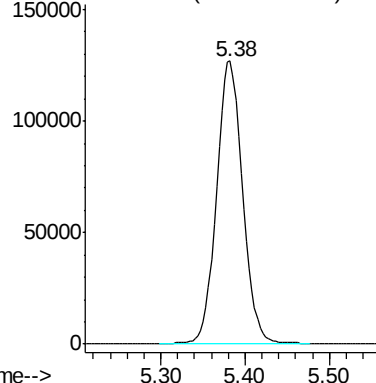
ClientSampleId :

ETF07MS

Tgt Ion: 78 Resp: 274211



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 55.350 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU033023.D

Acq: 24 Jun 2019 22:09

Tgt Ion: 95 Resp: 82473

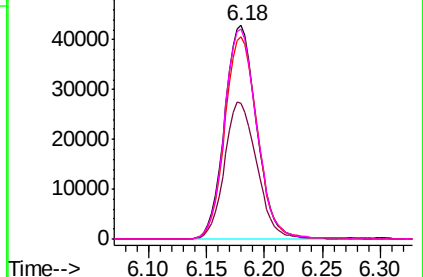
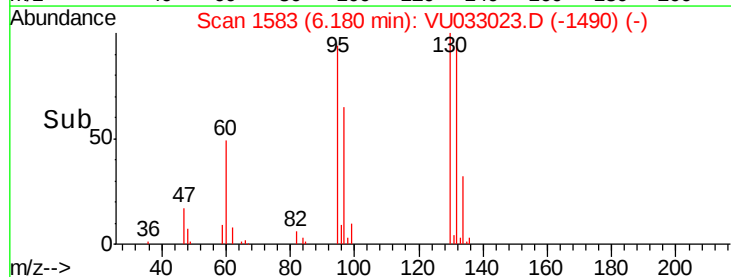
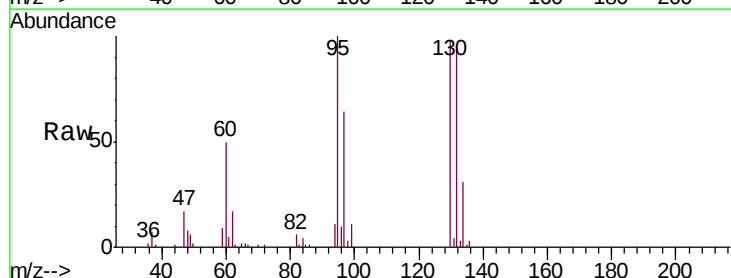
Ion	Ratio	Lower	Upper
95	100		
97	63.6	45.9	85.3
132	94.9	68.5	127.3
130	98.5	70.8	131.4

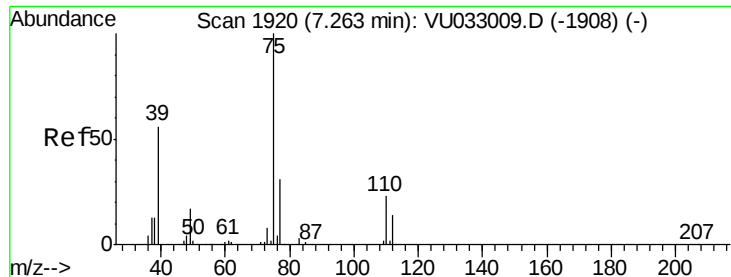
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

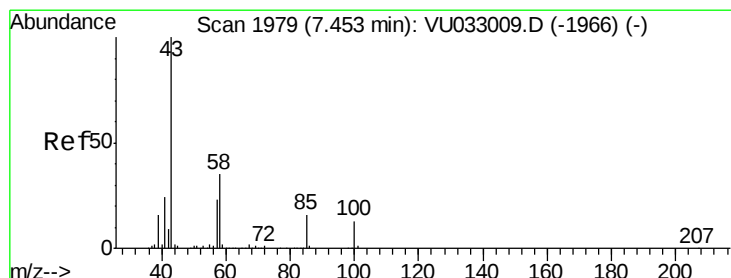
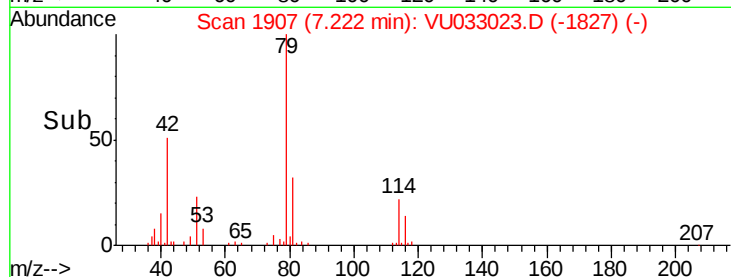
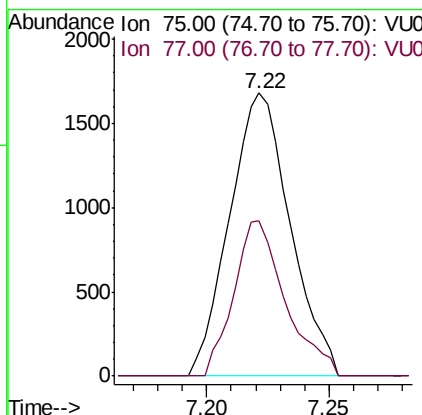
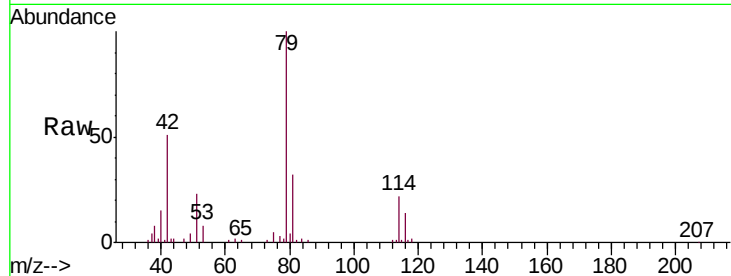




#39
 cis-1,3-Dichloropropene
 Concen: 1.214 ug/L
 RT: 7.22 min Scan# 1907
 Delta R.T. -0.04 min
 Lab File: VU033023.D
 Acq: 24 Jun 2019 22:09

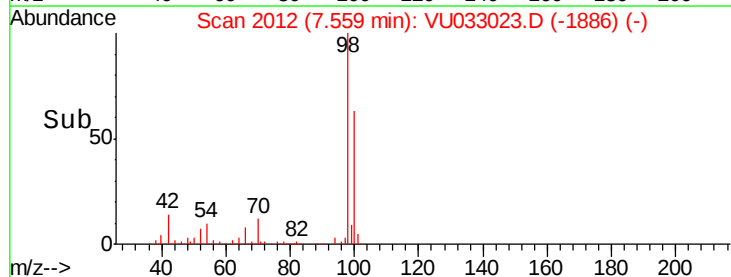
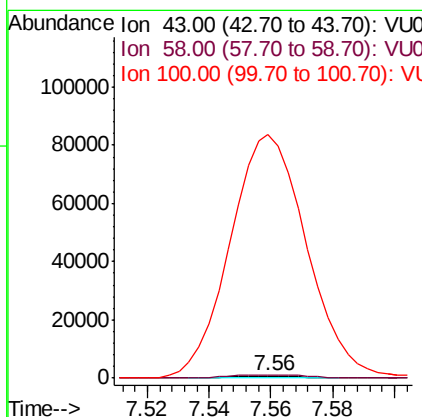
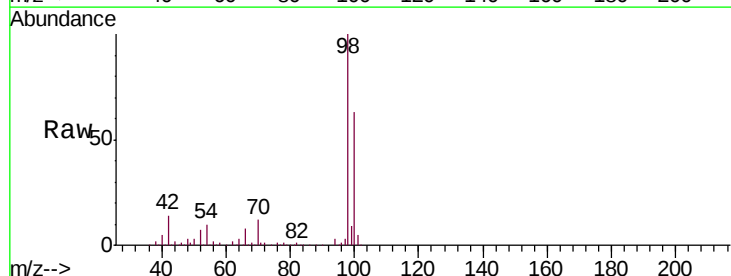
Instrument :
 MSVOA_U
 ClientSampleId :
 ETF07MS

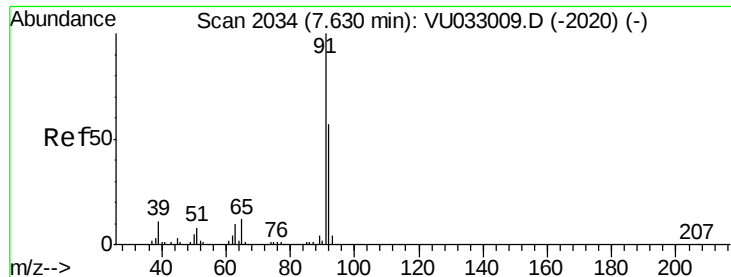
Tgt Ion: 75 Resp: 2894
 Ion Ratio Lower Upper
 75 100
 77 54.8 21.9 40.7#



#40
 4-Methyl-2-pentanone
 Concen: 0.479 ug/L
 RT: 7.56 min Scan# 2012
 Delta R.T. 0.11 min
 Lab File: VU033023.D
 Acq: 24 Jun 2019 22:09

Tgt Ion: 43 Resp: 1169
 Ion Ratio Lower Upper
 43 100
 58 177.4 29.4 44.2#
 100 12439.8 11.2 16.8#





#42

Toluene

Concen: 48.489 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. -0.00 min

Lab File: VU033023.D

Acq: 24 Jun 2019 22:09

Instrument :

MSVOA_U

ClientSampleId :

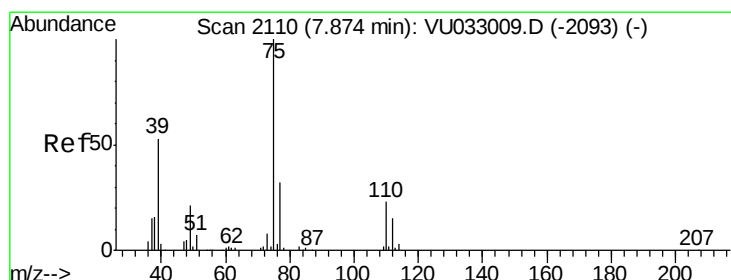
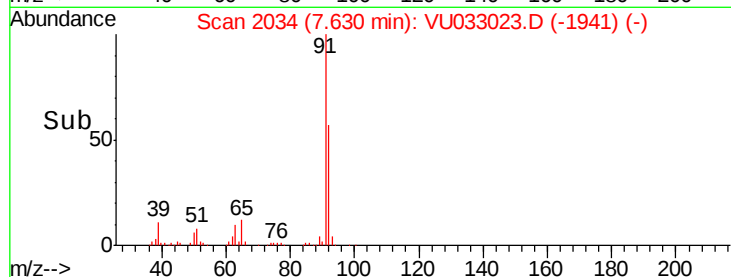
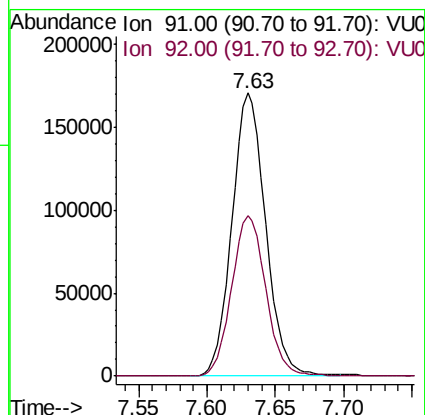
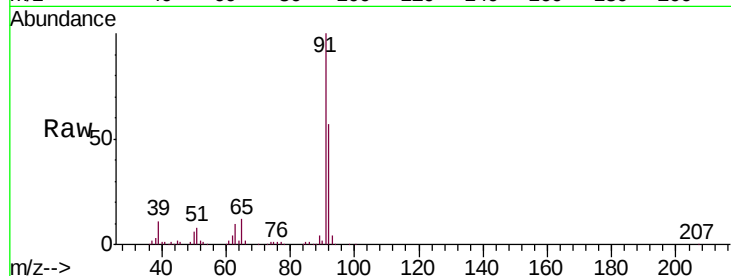
ETF07MS

Tgt Ion: 91 Resp: 292577

Ion Ratio Lower Upper

91 100

92 56.7 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 0.832 ug/L

RT: 7.85 min Scan# 2101

Delta R.T. -0.03 min

Lab File: VU033023.D

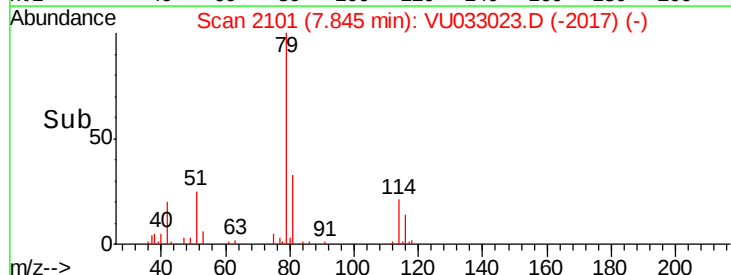
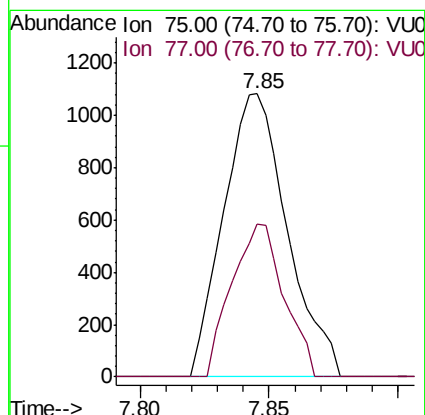
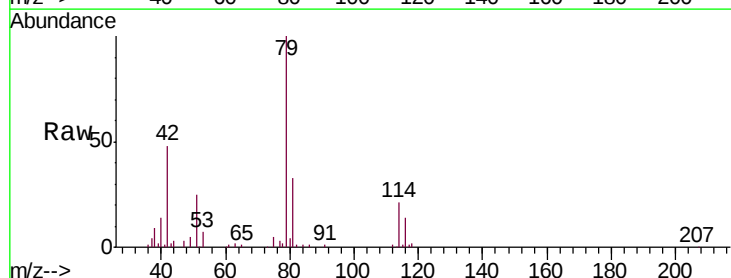
Acq: 24 Jun 2019 22:09

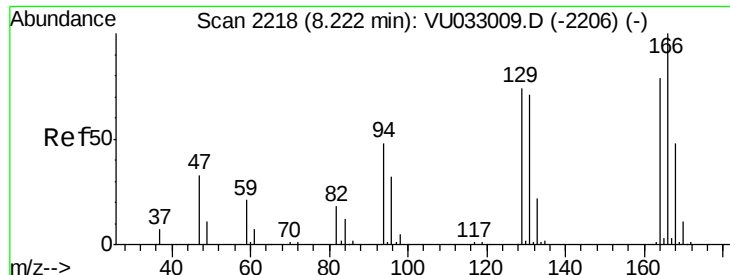
Tgt Ion: 75 Resp: 1863

Ion Ratio Lower Upper

75 100

77 54.2 21.8 40.4#





#46

Tetrachloroethene

Concen: 10.760 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU033023.D

Acq: 24 Jun 2019 22:09

Instrument :

MSVOA_U

ClientSampleId :

ETF07MS

Tgt Ion:164 Resp: 13138

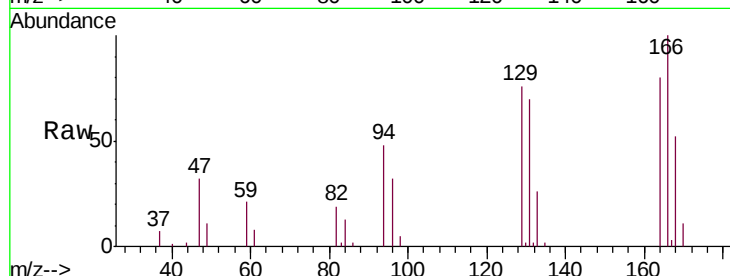
Ion Ratio Lower Upper

164 100

129 95.5 64.8 120.3

131 87.4 64.5 119.7

166 125.7 91.3 169.6

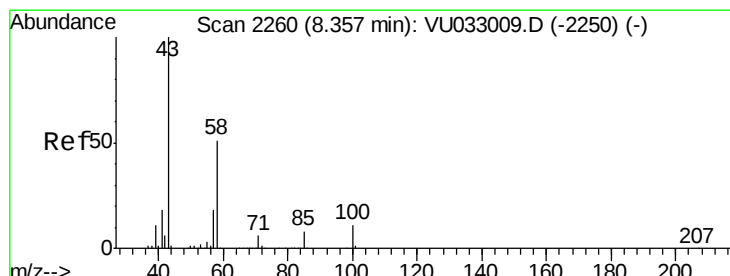
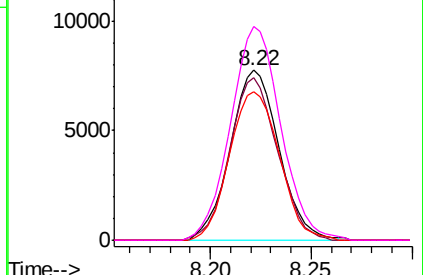
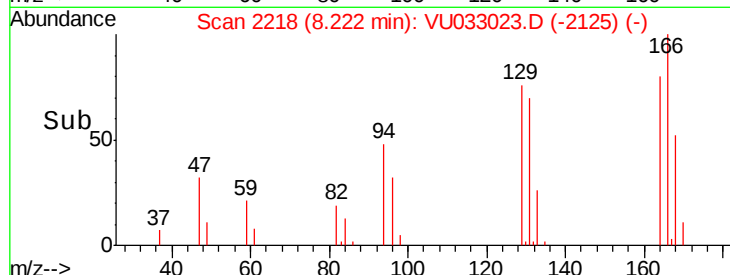


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 1.311 ug/L

RT: 8.36 min Scan# 2262

Delta R.T. 0.01 min

Lab File: VU033023.D

Acq: 24 Jun 2019 22:09

Tgt Ion: 43 Resp: 2826

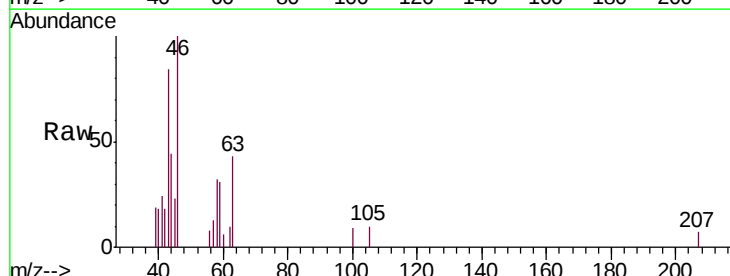
Ion Ratio Lower Upper

43 100

58 38.3 40.2 60.2#

57 3.9 14.2 21.4#

100 3.8 8.4 12.6#

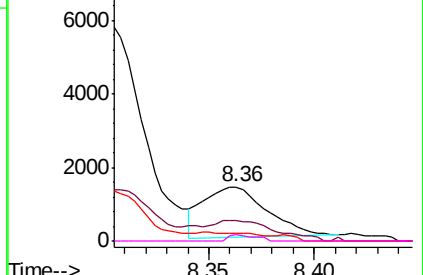
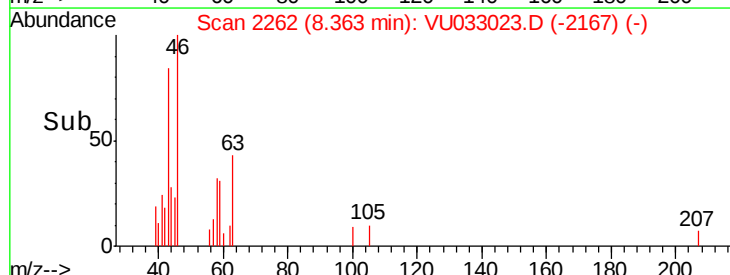


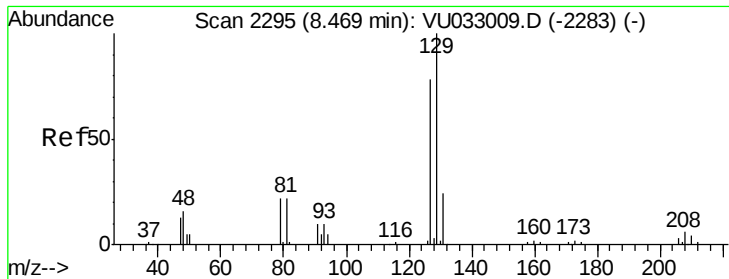
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

Ion 100.00 (99.70 to 100.70): VU0

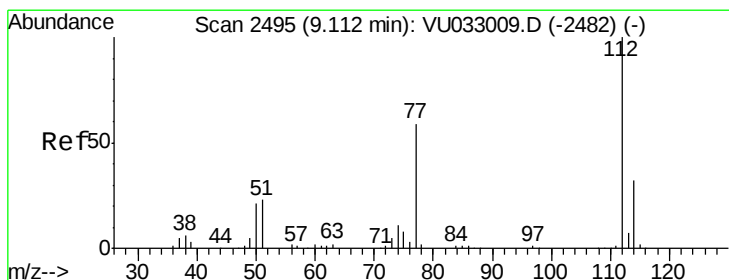
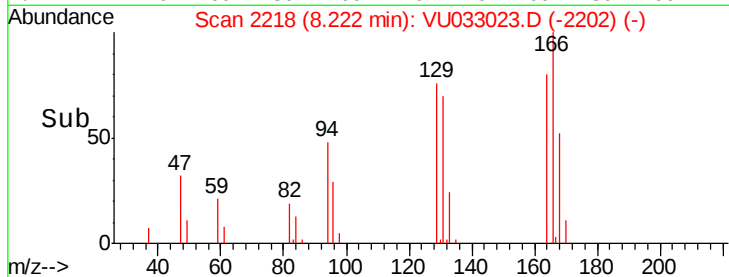
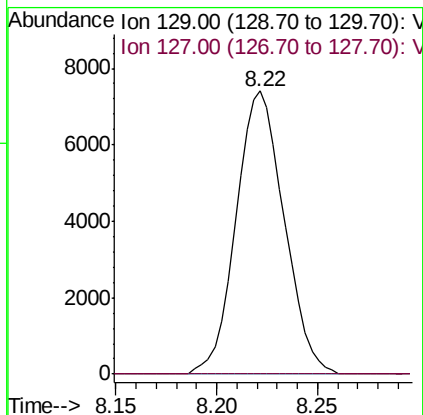
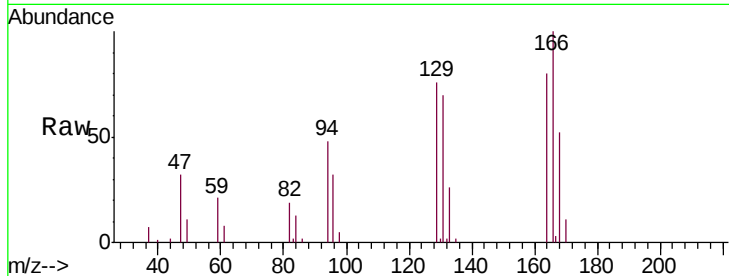




#49
Dibromochloromethane
Concen: 7.199 ug/L
RT: 8.22 min Scan# 2218
Delta R.T. -0.25 min
Lab File: VU033023.D
Acq: 24 Jun 2019 22:09

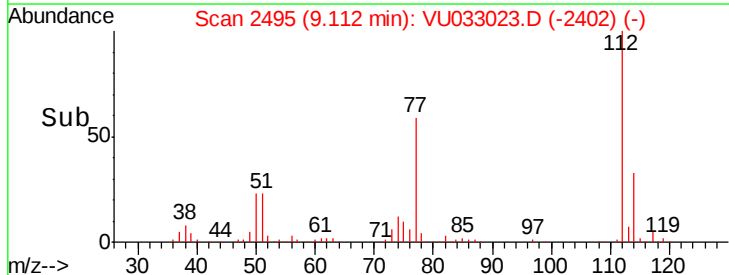
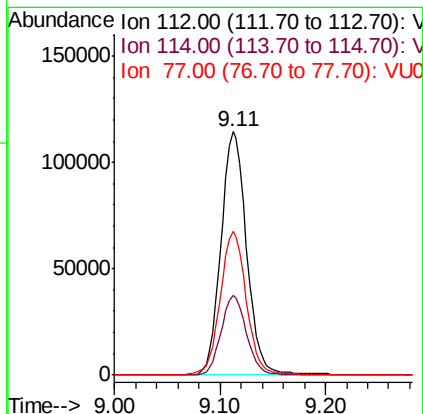
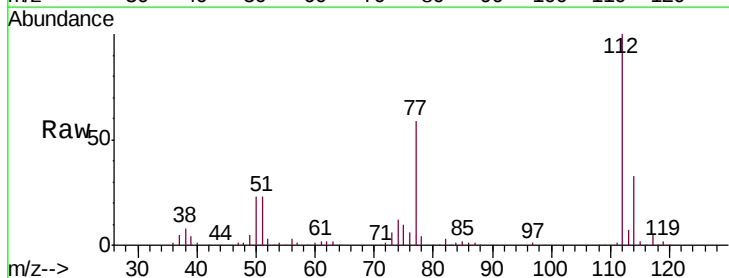
Instrument :
MSVOA_U
ClientSampleId :
ETF07MS

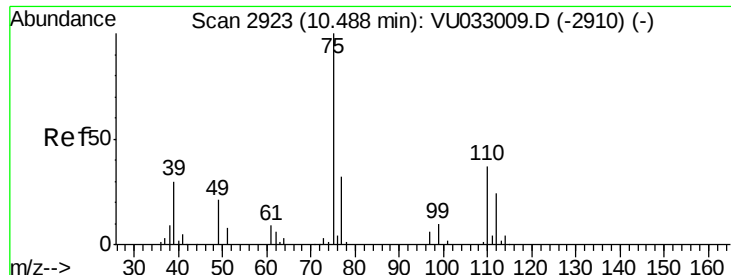
Tgt Ion:129 Resp: 12357
Ion Ratio Lower Upper
129 100
127 0.0 52.3 97.1#



#51
Chlorobenzene
Concen: 48.506 ug/L
RT: 9.11 min Scan# 2495
Delta R.T. -0.00 min
Lab File: VU033023.D
Acq: 24 Jun 2019 22:09

Tgt Ion:112 Resp: 192595
Ion Ratio Lower Upper
112 100
114 32.8 22.8 42.4
77 59.0 46.3 69.5





#59

1,2,3-Trichloropropane

Concen: 5.555 ug/L

RT: 11.48 min Scan# 3230

Delta R.T. 0.99 min

Lab File: VU033023.D

Acq: 24 Jun 2019 22:09

Instrument :

MSVOA_U

ClientSampleId :

ETF07MS

Tgt Ion: 75 Resp: 11340

Ion Ratio Lower Upper

75 100

77 39.2 25.5 38.3#

